

**WEST Search History**

10/797,366

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DATE: Tuesday, December 19, 2006

| <b>Hide?</b>             | <b>Set Name</b>                  | <b>Query</b> | <b>Hit Count</b> |
|--------------------------|----------------------------------|--------------|------------------|
|                          | <i>DB=USPT; PLUR=YES; OP=ADJ</i> |              |                  |
| <input type="checkbox"/> | L16                              | 6965015      | 1                |
| <input type="checkbox"/> | L15                              | 6965011      | 1                |
| <input type="checkbox"/> | L14                              | 6946262      | 1                |
| <input type="checkbox"/> | L13                              | 6894148      | 1                |
| <input type="checkbox"/> | L12                              | 6878807      | 1                |
| <input type="checkbox"/> | L11                              | 6852848      | 1                |
| <input type="checkbox"/> | L10                              | 6828146      | 1                |
| <input type="checkbox"/> | L9                               | 6818746      | 1                |
| <input type="checkbox"/> | L8                               | 6818449      | 1                |
| <input type="checkbox"/> | L7                               | 6806352      | 2                |
| <input type="checkbox"/> | L6                               | 6767995      | 1                |
| <input type="checkbox"/> | L5                               | 6723535      | 1                |
| <input type="checkbox"/> | L4                               | 6686451      | 1                |
| <input type="checkbox"/> | L3                               | 6664376      | 1                |
| <input type="checkbox"/> | L2                               | 6635468      | 1                |
| <input type="checkbox"/> | L1                               | 09907794     | 0                |

END OF SEARCH HISTORY

&lt;!--StartFragment--&gt;

## ALIGNMENTS

## RESULT 1

A59180

Wnt inhibitory factor-1 - human

C;Species: Homo sapiens (man)

C;Date: 18-Feb-2000 #sequence\_revision 18-Feb-2000 #text\_change 09-Jul-2004

C;Accession: A59180

R;Hsieh, J.C.; Kodjabachian, L.; Rebbert, M.L.; Rattner, A.; Smallwood, P.M.; Samos, C  
Nature 398, 431-436, 1999

A;Title: A new secreted protein that binds to Wnt proteins and inhibits their activiti

A;Reference number: A59180; MUID:99215557; PMID:10201374

A;Accession: A59180

A;Status: preliminary; not compared with conceptual translation

A;Molecule type: mRNA

A;Residues: 1-379 &lt;HSI&gt;

A;Cross-references: UNIPROT:Q9Y5W5; UNIPARC:UPI0000051058; GB:AF122922; NID:g4585369;

Query Match 99.7%; Score 2142; DB 2; Length 379;  
Best Local Similarity 99.7%; Pred. No. 1.2e-142;  
Matches 378; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Qy      1 MARRSAFPAAALWLWSILLCLLALRAEAGPPQEEESLYLWIDAHQARVLIGFEEDILIVSE 60
      |||
Db      1 MARRSAFPAAALWLWSILLCLLALRAEAGPPQEEESLYLWIDAHQARVLIGFEEDILIVSE 60

Qy     61 GKMAPFTHDFRKAQQRMPAIPVNIHSMNFTWQAAGQAEYFYEFSLRSLDKGIMADPTVN 120
      |||
Db     61 GKMAPFTHDFRKAQQRMPAIPVNIHSMNFTWQAAGQAEYFYEFSLRSLDKGIMADPTVN 120

Qy    121 VPLLGTVPHKASVVQVGFPCLGKQDGVAAFEVDVIVMNSEGNTILQTPQNAIFFKTCQQA 180
      |||
Db    121 VPLLGTVPHKASVVQVGFPCLGKQDGVAAFEVDVIVMNSEGNTILQTPQNAIFFKTCQQA 180

Qy    181 ECPGGCRNGGFCNERRICECPDGFHGHCEKALCTPRCMNGGLCVTPGFCICPPGFGYGVN 240
      |||
Db    181 ECPGGCRNGGFCNERRICECPDGFHGHCEKALCTPRCMNGGLCVTPGFCICPPGFGYGVN 240

Qy    241 CDKANCSTTCFNGGTCFYPGKCICPPGLEGEQCEISKCPQPCRNGGKCIGKSKCKCSKGY 300
      |||
Db    241 CDKANCSTTCFNGGTCFYPGKCICPPGLEGEQCEISKCPQPCRNGGKCIGKSKCKCSKGY 300

Qy    301 QGDLCSKPVCEPGCGAHGTCHEPNKCQCQEGWHGRHCNKRYEASLIHALRPAGAQLRQHT 360
      |||
Db    301 QGDLCSKPVCEPGCGAHGTCHEPNKCQCQEGWHGRHCNKRYEASLIHALRPAGAQLRQHT 360

Qy    361 PSLKKAEEERRDPPE$NYIW 379
      |||
Db    361 PSLKKAEEERRDPPE$NYIW 379
```

&lt;!--EndFragment--&gt;

&lt;!--StartFragment--&gt;RESULT 1

WIF1\_HUMAN

ID WIF1\_HUMAN STANDARD; PRT; 379 AA.

AC Q9Y5W5; Q6UXI1; Q8WVG4;

DT 11-JAN-2001, integrated into UniProtKB/Swiss-Prot.

DT 15-MAR-2005, sequence version 3.

DT 07-MAR-2006, entry version 45.

DE Wnt inhibitory factor 1 precursor (WIF-1).

GN Name=WIF1; ORFNames=UNQ191/PRO217;

OS Homo sapiens (Human).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;

OC Homo.

OX NCBI\_TaxID=9606;

RN [1]

RP NUCLEOTIDE SEQUENCE [MRNA].

RX MEDLINE=99215557; PubMed=10201374; DOI=10.1038/18899;

RA Hsieh J.-C., Kodjabachian L., Rebbert M.L., Rattner A.,

RA Smallwood P.M., Samos C.H., Nusse R., Dawid I.B., Nathans J.;

RT "A new secreted protein that binds to Wnt proteins and inhibits their

RT activities.";

RL Nature 398:431-436 (1999).

RN [2]

RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].

RX MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;

RA Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D.T., Brush J.,

RA Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,

RA Eaton D., Foster J.S., Grimaldi C., Gu Q., Hass P.E., Heldens S.,

RA Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,

RA Lewis L., Liao D., Mark M.R., Robbie E., Sanchez C., Schoenfeld J.,

RA Seshagiri S., Simmons L., Singh J., Smith V., Stinson J., Vagts A.,

RA Vandlen R.L., Watanabe C., Wieand D., Woods K., Xie M.-H.,

RA Yansura D.G., Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A.D.,

RA Wood W.I., Godowski P.J., Gray A.M.;

RT "The secreted protein discovery initiative (SPDI), a large-scale

RT effort to identify novel human secreted and transmembrane proteins: a

RT bioinformatics assessment.";

RL Genome Res. 13:2265-2270 (2003).

RN [3]

RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].

RC TISSUE=Brain;

RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;

RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,

RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

RA Fahey J., Helton E., Kettelman M., Madan A., Rodrigues S., Sanchez A.,

RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,

RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,

RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,

RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;

RT "Generation and initial analysis of more than 15,000 full-length human

RT and mouse cDNA sequences.";

```

RL  Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
CC  -!- FUNCTION: Binds to WNT proteins and inhibits their activities. May
CC      be involved in mesoderm segmentation.
CC  -!- SUBCELLULAR LOCATION: Secreted protein.
CC  -!- SIMILARITY: Contains 5 EGF-like domains.
CC  -!- SIMILARITY: Contains 1 WIF domain.
CC  -----
CC  Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms
CC  Distributed under the Creative Commons Attribution-NoDerivs License
CC  -----
DR  EMBL; AF122922; AAD25402.1; -; mRNA.
DR  EMBL; AY358344; AAQ88710.1; -; mRNA.
DR  EMBL; BC018037; AAH18037.1; -; mRNA.
DR  PIR; A59180; A59180.
DR  HSSP; P05107; 1L3Y.
DR  Ensembl; ENSG00000156076; Homo sapiens.
DR  HGNC; HGNC:18081; WIF1.
DR  MIM; 605186; gene.
DR  GO; GO:0007165; P:signal transduction; NAS.
DR  InterPro; IPR006210; EGF.
DR  InterPro; IPR000742; EGF_3.
DR  InterPro; IPR013111; EGF_extracell.
DR  InterPro; IPR006209; EGF_like.
DR  InterPro; IPR013032; EGF_like_reg.
DR  InterPro; IPR003306; WIF.
DR  InterPro; IPR013309; WIF1.
DR  Pfam; PF00008; EGF; 2.
DR  Pfam; PF07974; EGF_2; 3.
DR  Pfam; PF02019; WIF; 1.
DR  PRINTS; PR01901; WIFPROTEIN.
DR  SMART; SM00181; EGF; 5.
DR  SMART; SM00469; WIF; 1.
DR  PROSITE; PS00022; EGF_1; 5.
DR  PROSITE; PS01186; EGF_2; 4.
DR  PROSITE; PS50026; EGF_3; 5.
DR  PROSITE; PS50814; WIF; 1.
KW  Developmental protein; EGF-like domain; Glycoprotein; Repeat; Signal;
KW  Wnt signaling pathway.
FT  SIGNAL          1      28      Potential.
FT  CHAIN           29     379      Wnt inhibitory factor 1.
FT                                     /FTId=PRO_0000007775.
FT  DOMAIN          38     176      WIF.
FT  DOMAIN          177    208      EGF-like 1.
FT  DOMAIN          209    240      EGF-like 2.
FT  DOMAIN          241    272      EGF-like 3.
FT  DOMAIN          273    304      EGF-like 4.
FT  DOMAIN          305    336      EGF-like 5.
FT  CARBOHYD         88     88      N-linked (GlcNAc. . .) (Potential).
FT  CARBOHYD        245    245      N-linked (GlcNAc. . .) (Potential).
FT  DISULFID        177    186      Potential.
FT  DISULFID        182    192      Potential.
FT  DISULFID        198    200      Potential.
FT  DISULFID        209    218      Potential.
FT  DISULFID        214    224      Potential.
FT  DISULFID        230    232      Potential.
FT  DISULFID        241    250      Potential.
FT  DISULFID        246    256      Potential.
FT  DISULFID        262    264      Potential.
FT  DISULFID        273    282      Potential.
FT  DISULFID        278    288      Potential.
FT  DISULFID        294    296      Potential.

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|    |          |         |           |                         |
|----|----------|---------|-----------|-------------------------|
| FT | DISULFID | 305     | 314       | Potential.              |
| FT | DISULFID | 310     | 320       | Potential.              |
| FT | DISULFID | 326     | 328       | Potential.              |
| FT | CONFLICT | 166     | 166       | Q -> K (in Ref. 3).     |
| FT | CONFLICT | 178     | 178       | Q -> L (in Ref. 1).     |
| SQ | SEQUENCE | 379 AA; | 41528 MW; | 32ADFA6644833E9D CRC64; |

Query Match 100.0%; Score 2149; DB 1; Length 379;  
Best Local Similarity 100.0%; Pred. No. 3.9e-158;  
Matches 379; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy      1  MARRSAFPAAALWLWSILLCLLALRAEAGPPQEESLYLWIDAHQARVLIGFEEDILIVSE  60
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Qy    121  VPLLGTVPHKASVVQVGFPCLGKQDGVAAFEVDVIVMNSEGNTILQTPQNAIFFKTCQQA  180
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Db    121  VPLLGTVPHKASVVQVGFPCLGKQDGVAAFEVDVIVMNSEGNTILQTPQNAIFFKTCQQA  180

Qy    181  ECPGGCRNGGFCNERRICECPDGFHGHPCHEKALCTPRCMNGGLCVTPGFCICPPGFYGVN  240
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Db    181  ECPGGCRNGGFCNERRICECPDGFHGHPCHEKALCTPRCMNGGLCVTPGFCICPPGFYGVN  240

Qy    241  CDKANCSTTCFNGGTCFYPGKCICPPGLEGEQCEISKCPQPCRNGGKCIGKSKCKCSKGY  300
      ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    241  CDKANCSTTCFNGGTCFYPGKCICPPGLEGEQCEISKCPQPCRNGGKCIGKSKCKCSKGY  300

Qy    301  QGDLCSPKVPCEPGCGAHGTCHEPNKCQCQEGWHGRHCNKRYEASLIHALRPAGAQLRQHT  360
      ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    301  QGDLCSPKVPCEPGCGAHGTCHEPNKCQCQEGWHGRHCNKRYEASLIHALRPAGAQLRQHT  360

Qy    361  PSLKKAEEERDPPESNYIW  379
      ||||||||||||||||
Db    361  PSLKKAEEERDPPESNYIW  379
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